

Application No.: 09/930,484
Amendment dated November 1, 2005
Reply to Office Action of June 2, 2005

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Previously Presented) A method of providing a skin from a wireless communication network for a user interface of a mobile communication device for operating using the wireless communication network with the user interface being variable to vary display of data on a display of the mobile communication device, the method comprising:

in the wireless communication network providing a data file including information defining characteristics of the skin for the user interface based upon characteristics of the mobile communication device and providing a markup language style sheet describing a manner in which data is to be displayed on the display of the mobile communication device;

transforming the data file into a markup language document according to the markup language style sheet in dependence upon the characteristics of the mobile communication device; and

providing the markup language document to a user interface application to cause the display of the data on the display in accordance with the user interface.

2. (Previously Presented) The method recited in claim 1, wherein the data file is stored in a server connected to the wireless communication network providing communications to the mobile communication device.

3. (original) The method recited in claim 2, wherein the data file includes a copy protection flag to prevent copying of the skin file.

4. (currently amended) The method recited in claim 2, wherein the markup language style sheet is stored in the server.

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5. (original) The method recited in claim 4, wherein the markup language style sheet is selected by the server from among a plurality of markup language style sheets.

6. (currently amended) The method recited in claim 5, wherein the markup language style sheet is selected on the basis of subscriber information and information indicating a type of mobile communication device.

7. (original) The method recited in claim 2, wherein the transformation is performed in the server.

8. (original) The method recited in claim 1, wherein the data file includes information defining display elements of the skin.

9. (Previously Presented) The method recited in claim 1, wherein the mobile communication device includes a browser, and the browser downloads skin data from the network.

10. (cancelled)

11. (Previously Presented) The method recited in claim 1, wherein the user interface application is the user interface of a browser, operating system or other user application.

12. (original) The method recited in claim 1, wherein the mobile communication device includes a processor, wherein the processor creates the skin by parsing the markup language document obtained by transforming the data file according to the markup language style sheet.

13. (Previously Presented) A mobile communication device for operation in a wireless communication network with the wireless communication network providing a data file

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including information defining characteristics of a skin for a variable user interface of the mobile communication device based upon characteristics of the mobile communication device and providing a markup language style sheet describing a manner in which data is to be displayed on a display of the mobile communication device and the data file is transformed into a markup language document according to the markup language style sheet in dependence upon the characteristics of the mobile communication device comprising:

a transmitter/receiver circuit adapted to send and receive data over a wireless communication network;

operating system software;

a plurality of software applications interacting with said operating system software using a set of software components; and

a variable user interface, said user interface including at least the display which is varied by the variable interface, wherein at least one of said plurality of software applications utilizes said user interface, including the display of data on said display; and

wherein said mobile communication device is adapted to receive the markup language document through said transmitter/receiver circuit, said markup language document defining a skin for elements of said user interface and wherein said markup language document is provided to at least one of said plurality of software applications to cause the display of the data by the variable user interface.

14. (original) The mobile communication device recited in claim 13, wherein one of said software application comprises a browser or other software application adapted to receive markup language documents and render said documents on said display.

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15. (original) The mobile communication device recited in claim 14, wherein said browser is adapted to receive XML documents and render said XML documents on said display.

16. (Currently Amended) The mobile communication device recited in claim 15, wherein the data defining a skin is an XML document and said browser obtains the skin to be parsed, parses the said XML document and the parsed XML document is stored as a skin file in memory of said mobile communication device.

17. (original) The mobile communication device recited in claim 16, wherein said browser uses said skin file to render markup language documents on said screen.

18. (Previously Presented) The mobile communication device recited in claim 13, wherein said skin file includes a copy protection flag which prevents copying of said skin file.

19. (original) The mobile communication device recited in claim 13, wherein said operating system software is adapted to prepare a skin file from said data defining a skin for elements of said user interface and make said skin file available to said software applications interacting with said operating system software.

20. (Previously Presented) The mobile communication device recited in claim 19, wherein a plurality of software applications use said skin file made available by said operating system software.

21. (Previously Presented) The mobile communication device recited in claim 19, wherein the wireless communication network downloads digital rights management information to the wireless communication device which prevents unauthorized copying and the

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operating system software includes a digital rights management component from the digital rights management information and the use of said skin file is restricted according to said digital rights management component.

22. (Previously Presented) The mobile communication device recited in claim 13, wherein said mobile communication device is adapted to accept a plurality of exchangeable covers, each of said exchangeable covers having identification units, and to change the skin file to a skin file corresponding to a cover at about a time said cover is installed on said mobile communication device.

23. (Previously Presented) The method of claim 1, wherein at least one skin file is provided for purchase.

24. (Previously Presented) The method of claim 1, wherein providing the skin file includes arrangement for payment of the skin file.

25. (Previously Presented) The method of claim 1, wherein the mobile communication device includes a server for digital rights management.

26. (Previously Presented) The method of claim 1, including providing a digital rights management server for digital rights management.

27. (Previously Presented) The method of claim 1, providing the skin file for at least one of software application.

28. (Previously Presented) The method of claim 1, wherein the skin file is translated for at least one user interface application.

29. (Previously Presented) The method of claim 1, wherein the skin file provides a same user interface theme across all software applications.

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30. (Previously Presented) The method of claim 1, wherein the transformation is done by a XML Style Language Transformation (XSLT).

31. (Previously Presented) The mobile communication device of claim 13, wherein the skin is adapted to a user interface of the plurality of software application.

32. (Previously Presented) The mobile communication device of claim 13, wherein the mobile communication device includes a digital rights management server.

33. (Previously Presented) The mobile communication device of claim 13, wherein the skin provides a same user interface theme across all software applications.

34. (Currently Amended) The mobile communication device of claim 13, wherein the data is received via Bluetooth connection.

35. (Previously Presented) The mobile communication device of claim 13, wherein a parser translates said data defining the skin suitable for the plurality of software applications.

36. (Previously Presented) A server for providing a skin file for a variable user interface of a mobile communication device, the server comprising:

means for receiving a request for the skin for the variable user interface;

means for providing at least one skin data file including information defining characteristics of the skin;

means for transforming the data file with the data file including information defining characteristics of a skin for the variable user interface based upon characteristics of the mobile communication device into a markup language document according to a markup language style sheet; and

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means for transmitting the markup language document to the mobile communication device for use by a user interface application of the mobile communication device to display data on a display of the mobile communication device in accordance with the variable user interface.

37. (cancelled)

38. (Previously Presented) The method recited in claim 1 wherein the markup language style sheet is stored in the mobile communications device.

39. (Previously Presented) ~~The method~~ mobile communication device recited in claim 13 wherein the markup language style sheet is stored in the mobile communications device.

40. (Previously Presented) The server recited in claim 36 wherein the markup language style sheet is stored in the mobile communications device.

41. (Previously Presented) The method of claim 25 wherein the server for digital rights management is implemented as an extension to an operating system of the mobile communication device.

42. (Previously Presented) The method of claim 25 wherein the server for digital rights management provides support for skin type personalization.

43. (Previously Presented) The method of claim 1 wherein at least one skin file is provided for a preview before a purchase decision.

44. (Previously Presented) The method of claim 43 wherein after the purchase decision, a download procedure is initiated for at least one selected skin file.

45. (Previously Presented) The server of claim 36 comprising means for providing at least one markup language style sheet describing a manner in which the at least one

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skin file is to be represented on a display of the mobile communication device.

46. (Previously Presented) The server of claim 36 comprising means for obtaining at least one skin file by transforming the at least one skin file into a markup language document according to said at least one markup language style sheet.

47. (Previously Presented) The server of claim 36 comprising means for interrogating capabilities of the mobile communication device.

48. (Previously Presented) The server of claim 36 wherein the transforming is performed by XSLT transformation.

49. (Previously Presented) A wireless communication system comprising:
a mobile communication device, a user interface of the mobile communication device for operating using the wireless communication system with the user interface being variable to vary display of data on a display of the mobile communication device and a user interface application; and wherein

the wireless communication system provides a data file including information defining characteristics of a skin for the user interface based upon characteristics of the mobile communication device and providing a markup language style sheet describing a manner in which data is to be displayed on the display of the mobile communication device, transforms the data file into a markup language document according to the markup language style sheet in dependence upon the characteristics of the mobile communication device, and provides the markup language document to the user interface application to cause the display of the data on the display in accordance with the user interface.

50. (Previously Presented) The system recited in claim 49, comprising a server

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and wherein the data file is stored in the server connected to the wireless communication system providing communications to the mobile communication device.

51. (Previously Presented) The system recited in claim 50, wherein the data file includes a copy protection flag to prevent copying of the skin file.

52. (Previously Presented) The system recited in claim 50, wherein the markup language style sheet is stored in the server.

53. (Previously Presented) The system recited in claim 52, wherein the markup language style sheet is selected by the server from among a plurality of markup language style sheets.

54. (Previously Presented) The system recited in claim 53, wherein the markup language style sheet is selected on the basis of subscriber information and information indicating a type of mobile communication device.

55. (Previously Presented) The system recited in claim 50, wherein the transformation is performed in the server.

56. (Previously Presented) The system recited in claim 49, wherein the data file includes information defining display elements of the skin.

57. (Previously Presented) The system recited in claim 49, wherein the mobile communication device includes a browser, and the browser downloads skin data from the network.

58. (Previously Presented) The system recited in claim 49, wherein the user interface application is the user interface of a browser, operating system or other user application.

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59. (Currently Amended) The ~~method~~system recited in claim 49, wherein the mobile communication device includes a processor, wherein the processor creates the skin by parsing the markup language document obtained by transforming the data file according to the markup language style sheet.

60. (Previously Presented) A wireless communication system providing a data file including information defining characteristics of a skin for a variable user interface of a mobile communication device within the system based upon characteristics of the mobile communication device within the system and providing a markup language style sheet describing a manner in which data is to be displayed on a display of the mobile communication device and the data file is transformed into a markup language document according to the markup language style sheet in dependence upon the characteristics of the mobile communication device comprising:

a transmitter/receiver circuit adapted to send and receive data over the wireless communication system;

operating system software;

a plurality of software applications interacting with said operating system software using a set of software components; and

said user interface includes at least the display which is varied by the variable interface, wherein at least one of said plurality of software applications utilizes said user interface, including the display of data on said display; and wherein

said mobile communication device is adapted to receive the markup language document through said transmitter/receiver circuit, said markup language document defining a skin for

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elements of said user interface and wherein said markup language document is provided to at least one of said plurality of software applications to cause the display of the data by the variable user interface.

61. (Previously Presented) The system recited in claim 60, wherein one of said software application comprises a browser or other software application adapted to receive markup language documents and render said documents on said display.

62. (Previously Presented) The system recited in claim 61, wherein said browser is adapted to receive XML documents and render said XML documents on said display.

63. (Previously Presented) The system recited in claim 62, wherein the data defining a skin is an XML document and said browser obtains the skin to be parsed, parses the said XML document and the parsed XML document is stored as a skin file in memory of said mobile communication device.

64. (Previously Presented) The system recited in claim 63, wherein said browser uses said skin file to render markup language documents on said screen.

65. (Previously Presented) The system recited in claim 60, wherein said skin file includes a copy protection flag which prevents copying of said skin file.

66. (Previously Presented) The system recited in claim 60, wherein said operating system software is adapted to prepare a skin file from said data defining a skin for elements of said user interface and make said skin file available to said software applications interacting with said operating system software.

67. (Previously Presented) The system recited in claim 66, wherein a plurality of software applications use said skin file made available by said operating system software.

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68. Cancelled.